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SAN FRANCISCO  
CALIFORNIA 94105-2482  
TELEPHONE: 415.268.7000  
FACSIMILE: 415.268.7522  
WWW.MORO.COM

MORRISON & FOERSTER LLP  
NEW YORK, SAN FRANCISCO,  
LOS ANGELES, PALO ALTO,  
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DENVER, NORTHERN VIRGINIA,  
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FROM: Peter Yim  
Reg. 44,417

DATE: May 15, 2006

Number of pages with cover page:	14	
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Preparer of this slip has confirmed that facsimile number given is correct: **PJY1/8566**

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**Comments:**

**PLEASE PROCESS THE ATTACHED.**

Re: U.S. Patent Application No. 10/608,300  
For: OPTICAL METROLOGY OF STRUCTURES FORMED ON  
SEMICONDUCTOR WAFERS USING MACHINE LEARNING  
SYSTEMS  
By: Srinivas DODDI et al.  
Our reference: 50998-20055.00

Attached is the following:

1. Transmittal (1 page)
2. Amendment Under 37 CFR 1.111 (12 pages)

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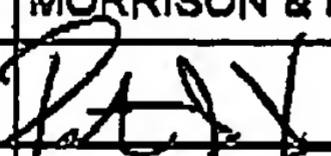
PTO/SB/21 (08-04)

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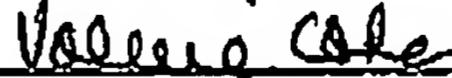
<b>TRANSMITTAL FORM</b> <small>(to be used for all correspondence after initial filing)</small>		Application Number	10/608,300
		Filing Date	June 27, 2003
		First Named Inventor	Srinivas DODDI
		Art Unit	2121
		Examiner Name	N. Brown
Total Number of Pages in This Submission	13	Attorney Docket Number	509982005500

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply (12 pages)	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Facsimile Cover Sheet (not counted as part of this submission)
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application		Remarks
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	MORRISON & FOERSTER LLP (Customer No. 20872)		
Signature			
Printed name	Peter J. Yim		
Date	May 15, 2006	Reg. No.	44,417

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, facsimile no. (671) 273-8300, on the date shown below.

Dated: May 15, 2006

Signature:  Valerie Cohen

st-2129824

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Dated: May 15, 2006

Signature: Valerio Cohen  
(Valerio Cohen)

Docket No.: 509982005500  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Patent Application of:**  
**Srinivas DODDI et al.**

**Application No.: 10/608,300**

**Filed: June 27, 2003**

**Art Unit: 2121**

**For: OPTICAL METROLOGY OF STRUCTURES  
FORMED ON SEMICONDUCTOR WAFERS  
USING MACHINE LEARNING SYSTEMS**

**Examiner: N. Brown**

**AMENDMENT UNDER 37 C.F.R. 1.111**

**MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**Dear Sir:**

**This is in response to the Office Action dated February 15, 2006, (Part of Paper No./Mail Date 021006). Accordingly, this response is timely filed. Reconsideration and allowance of the pending claims, as amended, in light of the remarks presented herein are respectfully requested.**

**sf-2129817**